DUAL HDD NAS Enclosure User's Manual
(IDE & SATA HDD Version)

Before you begin

1. If you purchased this storage to share your file or media with other computers, you must use an Ethernet cable with a properly configured Internet environment.

2. For optimal security and convenience, we recommend designating a single computer to handle all DUAL HDD NAS configuration settings.

Check your package content

- DUAL HDD NAS (Network Attached Storage)
- CD-ROM (Containing Setup software & Quick install manual)
- Ethernet (CAT5 UTP/Straight Through) cable
- 12V/4A DC Power Adapter

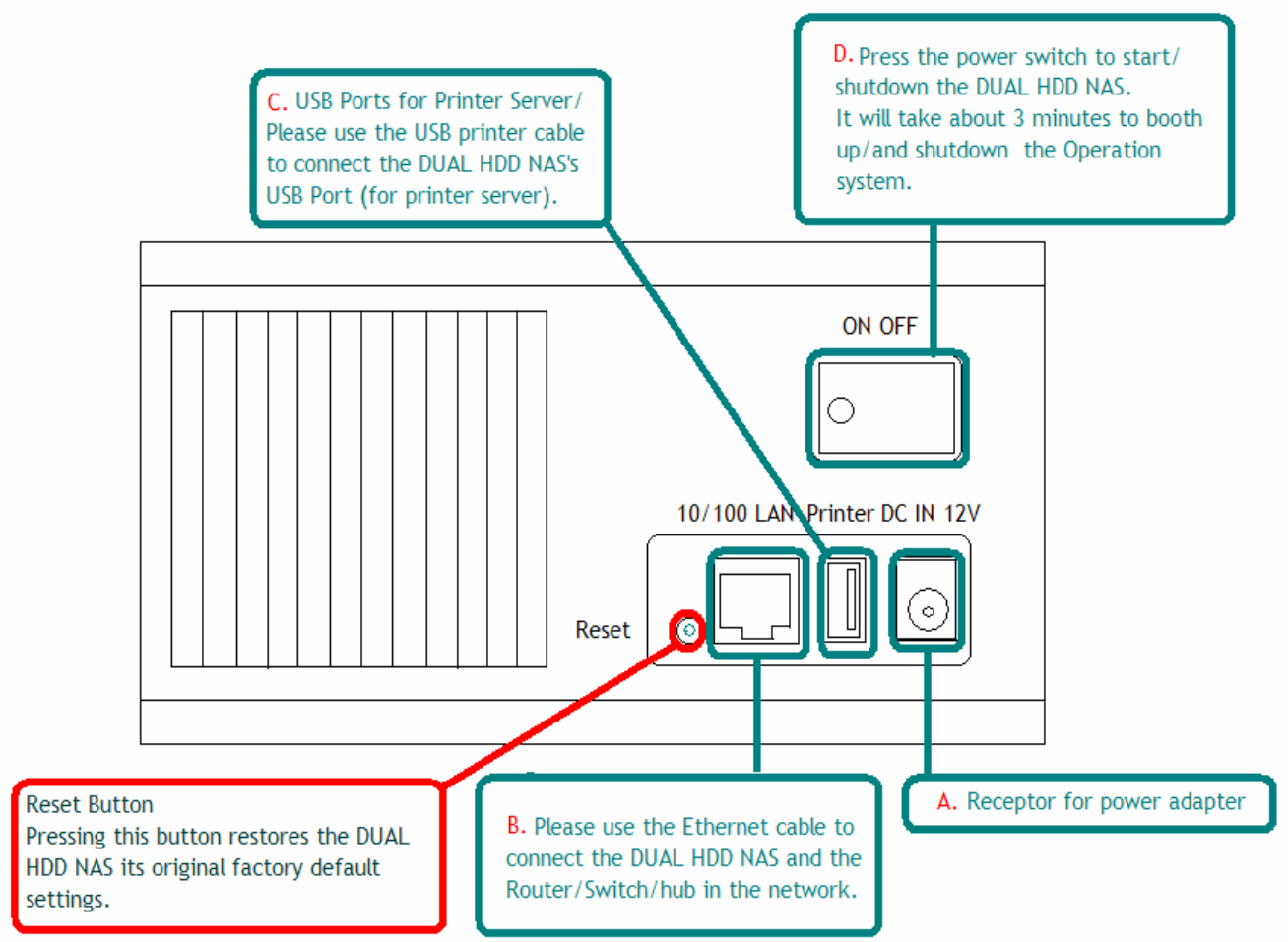
Connect the DUAL HDD NAS to Network.

A、First, connect the power adapter to the receptor at the back panel of the DUAL HDD NAS and then plug the other end of the power adapter to a wall outlet or power strip. Turn on the power switch; the Power LED will turn ON to indicate proper operation.

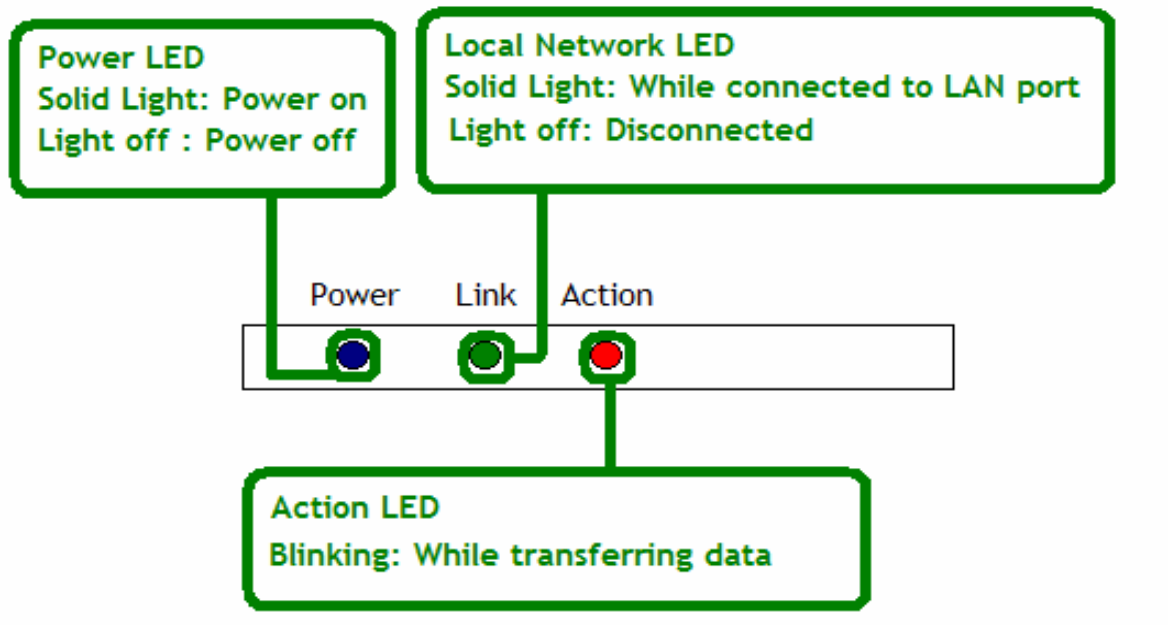
B、Insert an Ethernet cable to LAN port on the back of the DUAL HDD NAS and an available Ethernet port on the network adapter in the router/switch/hub you will use to connect to the DNS-300. The LED light for Link Port will illuminate to indicate proper connection.
-Please use a straight-through cable to the LAN port.
-Please make sure that your Local Area Network is already working properly.

C、USB ports can connect to USB printer, by connecting printer DUAL HDD NAS will become a printer server.

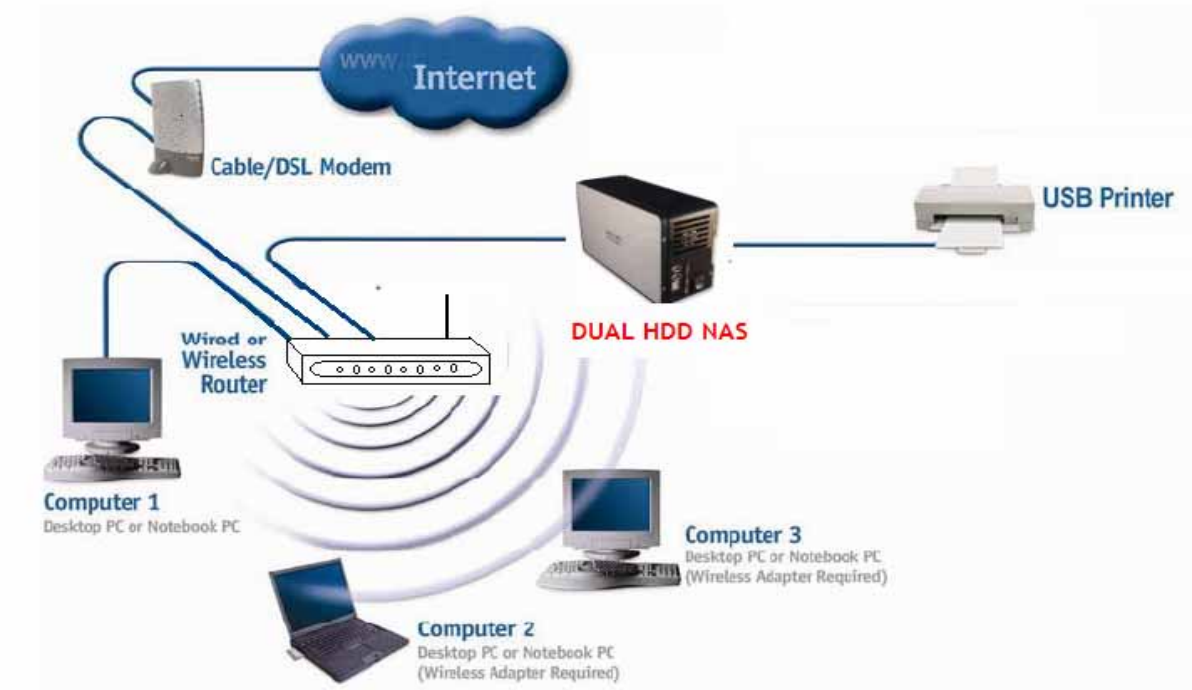
D. Press the power switch to start or shut down the DUAL HDD NAS. It will take about 3 minutes to booth up/ shutdown the operation system.


C. USB Ports for Printer Server/ Please use the USB printer cable to connect the DUAL HDD NAS's USB Port (for printer server).
D. Press the power switch to start/ shutdown the DUAL HDD NAS. It will take about 3 minutes to booth up/and shutdown the Operation system.
ON OFF
10/100 LAN
Printer
DC IN 12V
Reset
Reset Button
Pressing this button restores the DUAL HDD NAS its original factory default settings.
B. Please use the Ethernet cable to connect the DUAL HDD NAS and the Router/Switch/hub in the network.
A. Receptor for power adapter

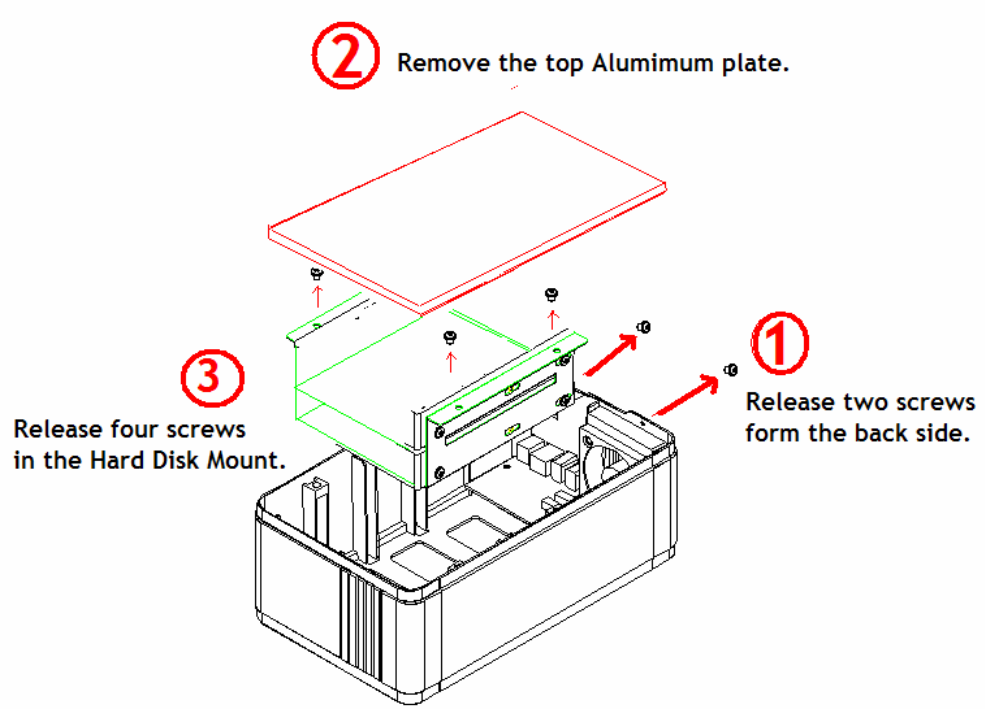
The descriptions of LEDs

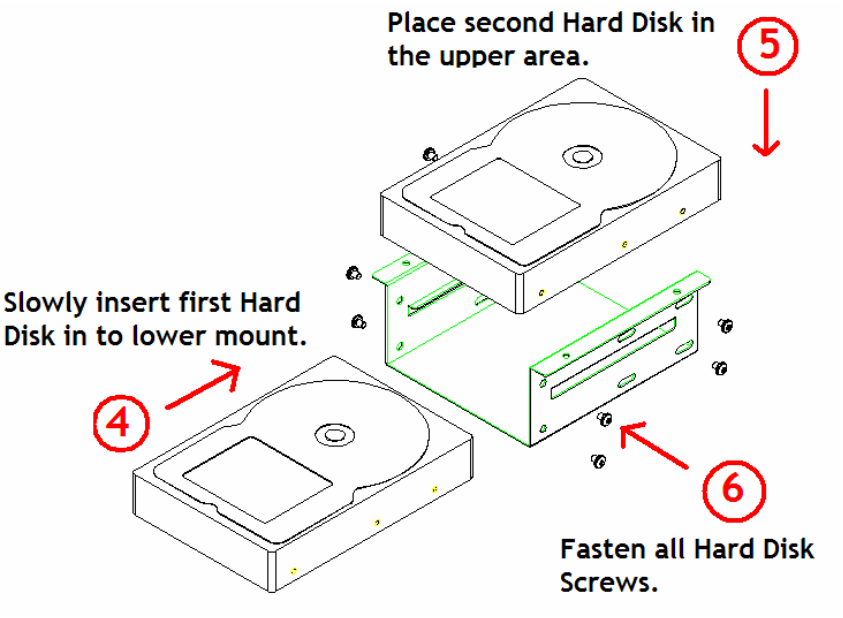


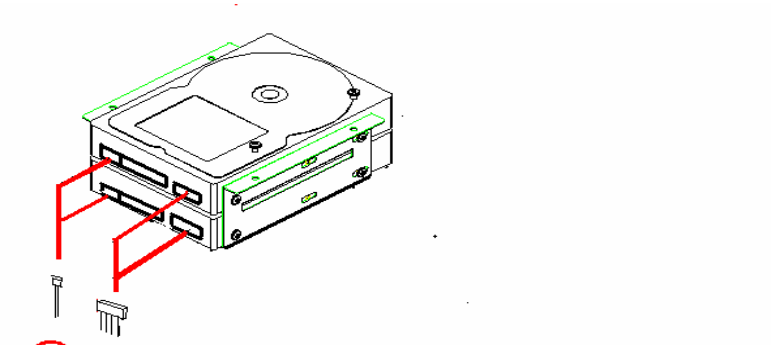
When you have completed the steps in this *Quick installation Guide*, your connected network should look similar to this:



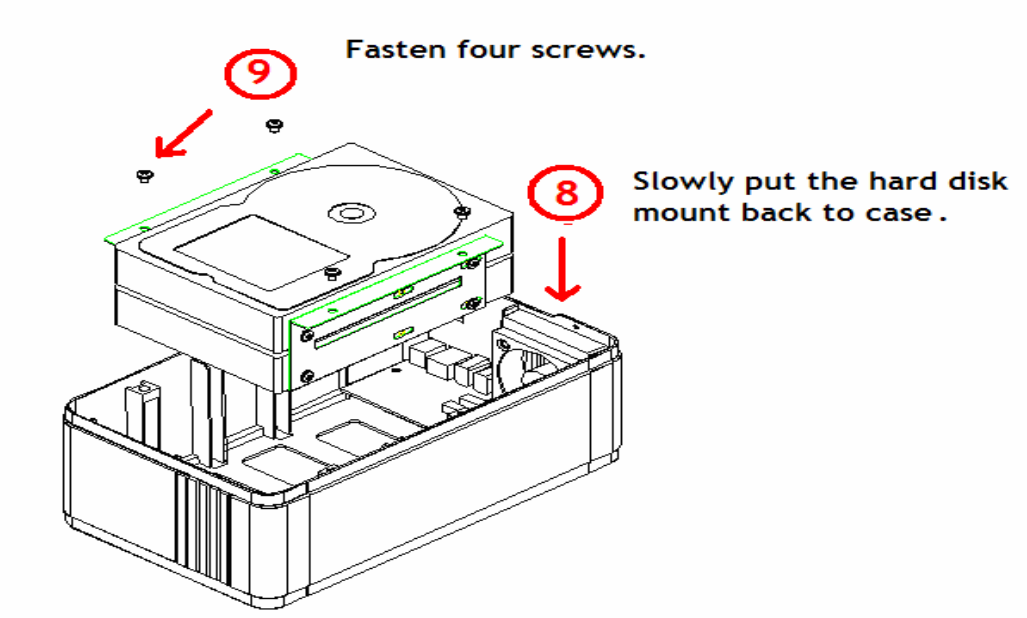
Setting Up the Hard Disk Drive

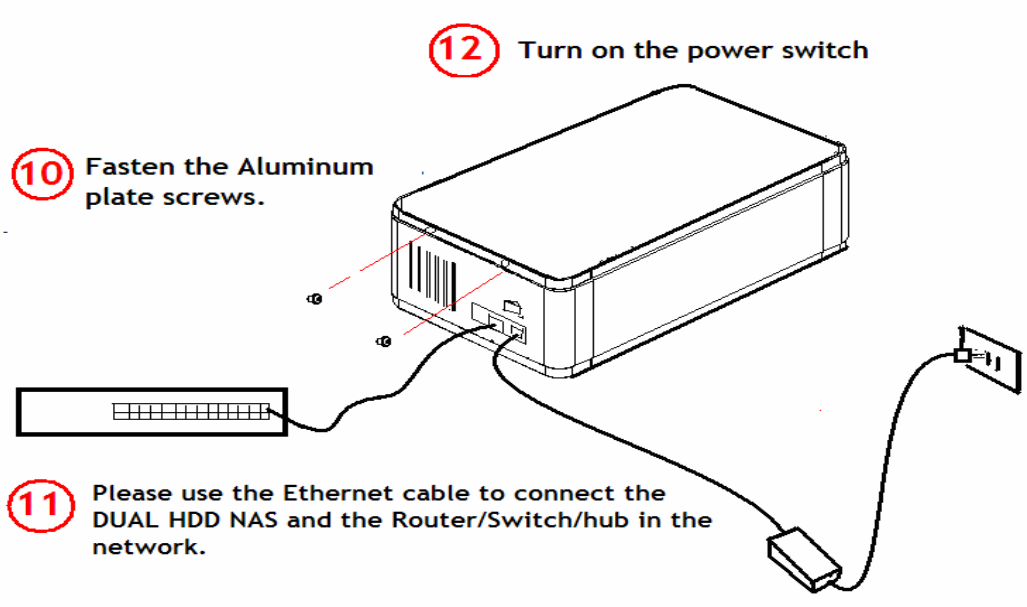






7 Connect both Power cable and SATA Cable in to your Hard Disk. (IDE Cable for IDE version)




12 Turn on the power switch
10 Fasten the Aluminum plate screws.
11 Please use the Ethernet cable to connect the DUAL HDD NAS and the Router/Switch/hub in the network.

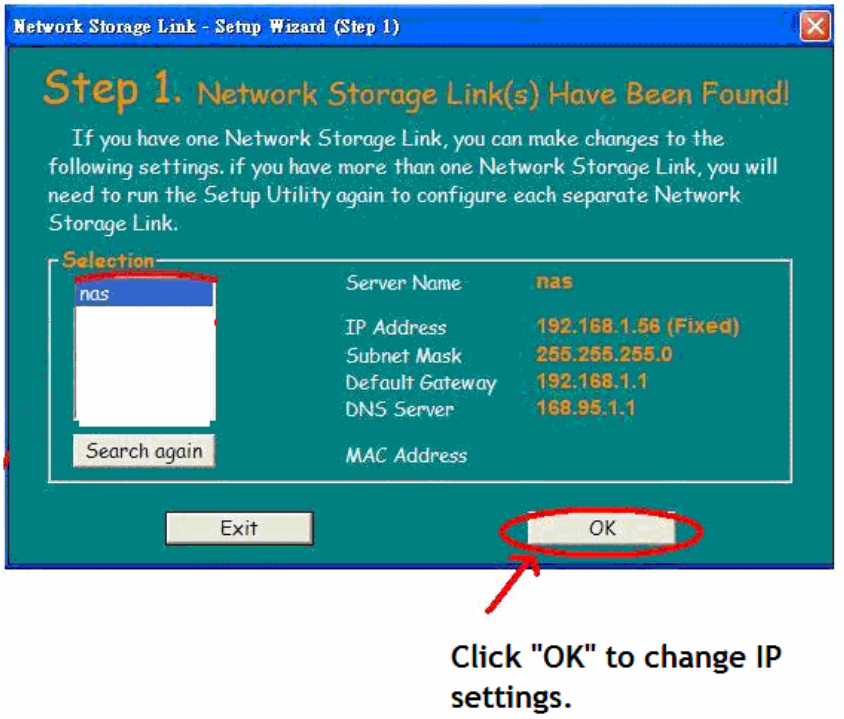
Configure DUAL HDD NAS setting by Setup Utility.

DUAL HDD NAS factory default gets an IP address thought DHCP protocol. If your network has DHCP server, DUAL HDD NAS will try to obtain an IP address form the network.
If there is no DHCP server in your network, after DUAL HDD NAS fail getting an IP address, the default IP address of 192.168.1.1 will be set, and DHCP server will start automatically.

Step1. Install the Setup Utility on your computer by inserting the DUAL HDD NAS CD-ROM in your CD drive and copy the “SetupUtil.exe” in to your computer desktop.

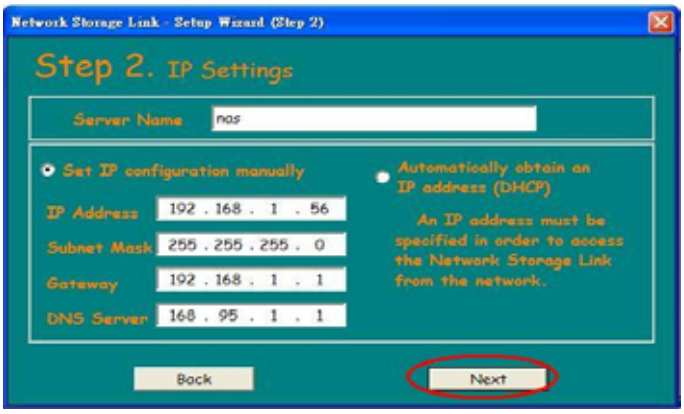
Step2. Setup utility will locate all DUAL HDD NAS on the network. Click “Setup” to start looking for DUAL HDD NAS in your Network.

Step3. Click “OK” to Change enter IP configuration settings.

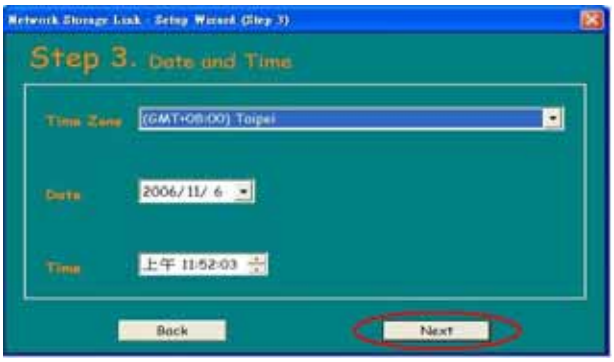

Network Storage Link - Setup Wizard (Step 1)
Step 1. Network Storage Link(s) Have Been Found!
If you have one Network Storage Link, you can make changes to the following settings. if you have more than one Network Storage Link, you will need to run the Setup Utility again to configure each separate Network Storage Link.
Selection
nas
Search again
Server Name
nas
IP Address
192.168.1.56 (Fixed)
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
168.95.1.1
MAC Address
Exit
OK
Click "OK" to change IP settings.

Step4. Enter “admin”, then Click “OK”

Step5. “Automatically obtain an IP address” will be suggested if DHCP server on the network. Otherwise, select “set IP address configuration manually”, then click “Next” to continue.

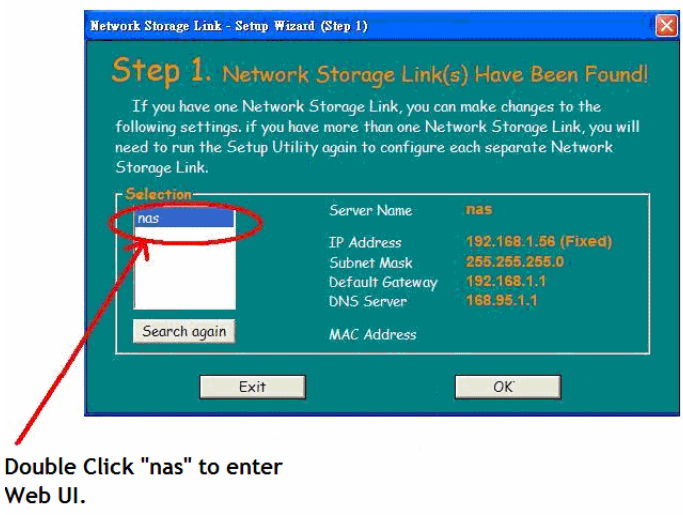

Network Storage Link - Setup Wizard (Step 2)
Step 2. IP Settings
Server Name
nas
Set IP configuration manually
IP Address
192 . 168 . 1 . 56
Subnet Mask
255 . 255 . 255 . 0
Gateway
192 . 168 . 1 . 1
DNS Server
168 . 95 . 1 . 1
Automatically obtain an IP address (DHCP)
An IP address must be specified in order to access the Network Storage Link from the network.
Back
Next

Step6. Set time zone, current Date and Time.



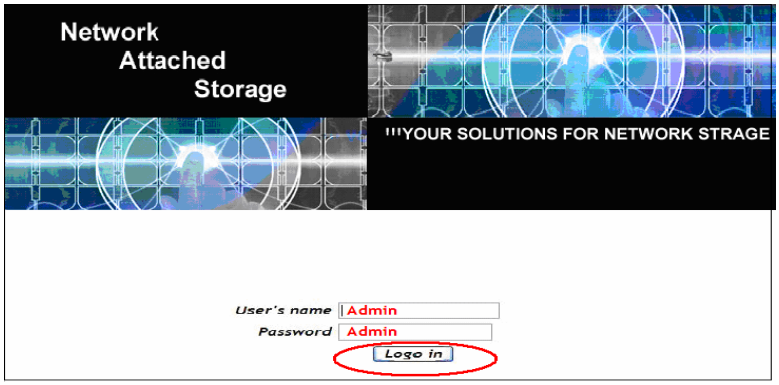
Step7. Your old and new setting will be shown on screen, if new setting is correct then click “Save” to save the Configuration to DUAL HDD NAS.

Step 8. Double click “nas” to Enter Web UI of DUAL HDD NAS.


Network Storage Link - Setup Wizard (Step 1)
Step 1. Network Storage Link(s) Have Been Found!
If you have one Network Storage Link, you can make changes to the following settings. if you have more than one Network Storage Link, you will need to run the Setup Utility again to configure each separate Network Storage Link.
Selection
nas
Search again
Server Name
nas
IP Address
192.168.1.56 (Fixed)
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
168.95.1.1
MAC Address
Exit
OK
Double Click "nas" to enter Web UI.

Configure DUAL HDD NAS setting by WEB UI

Step1. Input the User's name and password in the login page, "Admin" was the user's name and password by default; change security privilege is recommended.



Hard Disk setup (Format/RAID)

HDD status will be detected by system automatically. If the new non-formatted HDD was found, a format require massage will be suggested by the pop up window, and the system will restart after format completed automatically.

Step1. Click" Control Panel"

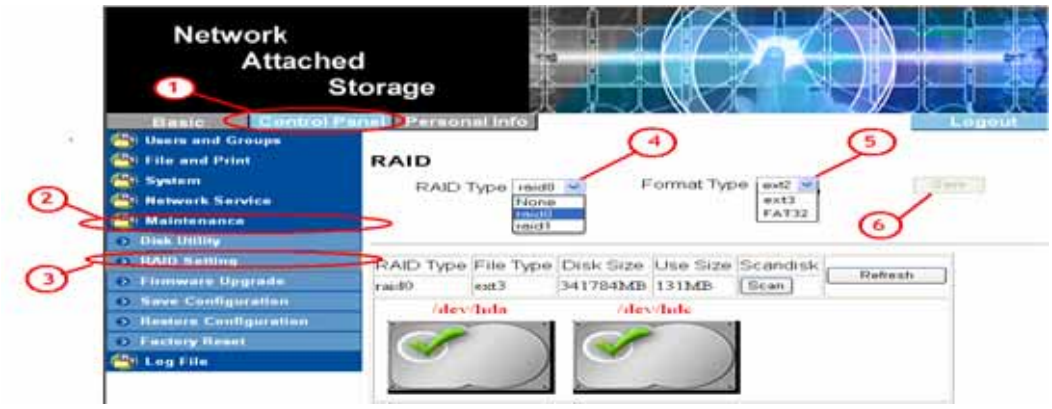
Setp2. Select "Maintenance"

Step3. Select "RAID Setting"

Step4. Select "RAID Type" (None, RAID 0, RAID 1)
If data redundancy is your primary concern, choose RAID 1. If capacity is your primary concern, choose RAID 0.

Step5. Select HDD format type.(EXT2, EXT3, FAT32)
Notes: *FAT32 format unable to perform RAID functions.*

Step6. Click "Save" to start formatting.



Note: *Building a RAID array may take a prolonged period of time, depending on the size of hard drives and RAID mode.*

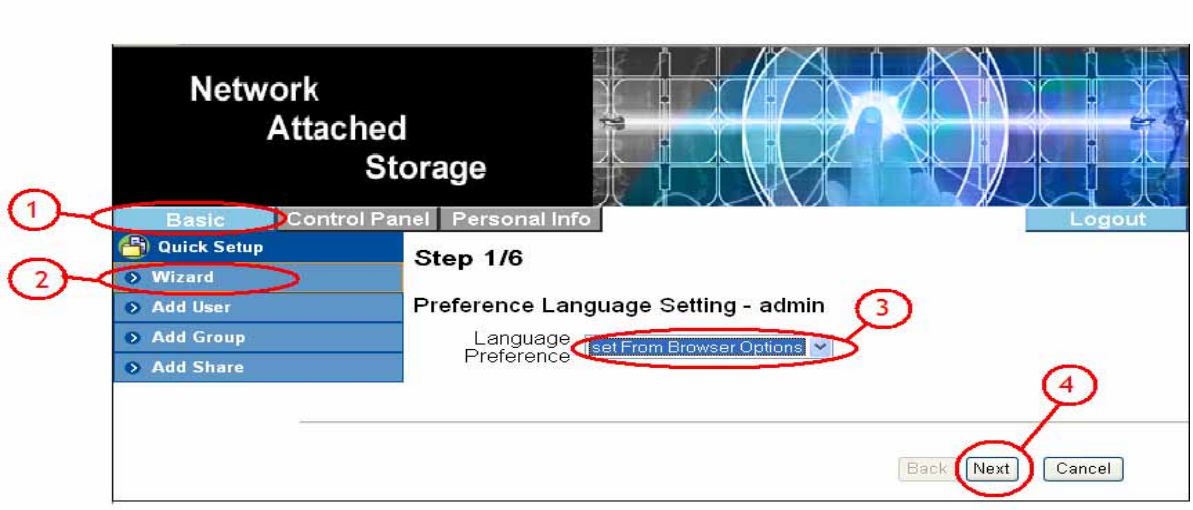
Interface language setup

Step1. Click" Basic"

Setp2. Select "Wizard"

Step3. Select "Language" (English/ Chinese only)
User can chose form either English or Chinese for the Web UI.

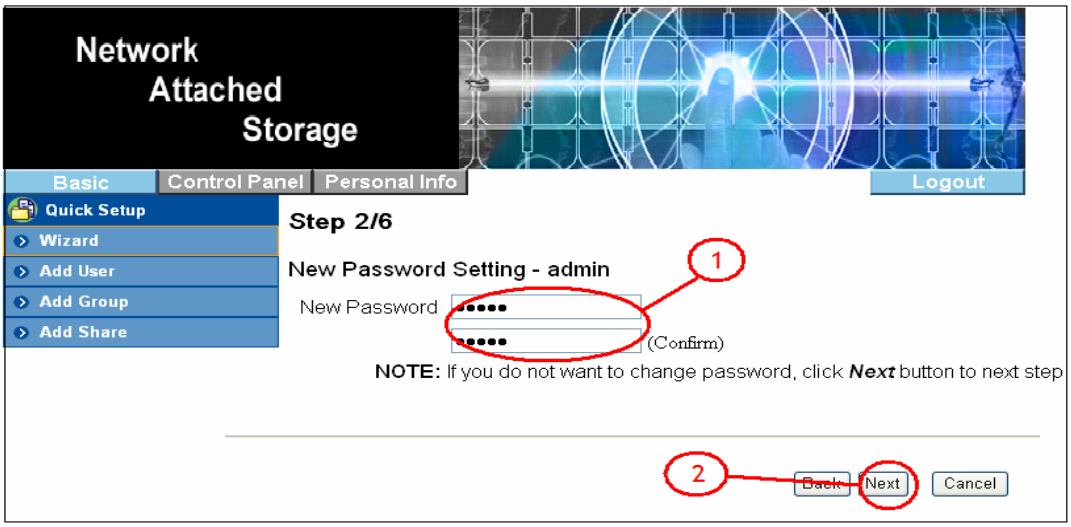
Step4. Click "Next" to continue.



Change Admin Password

Step1. Enter new password for DUAL HDD NAS administration.

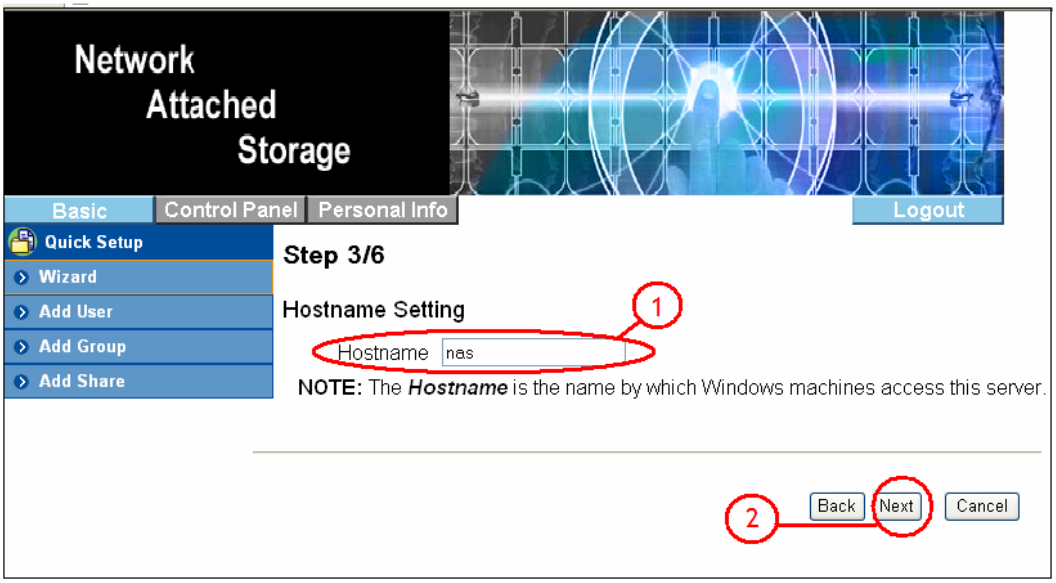
Step2. Click "Next" to continue.



Change Host name

Step1. Enter new host name for DUAL HDD NAS.
The host name is the name by which windows machines access this server.

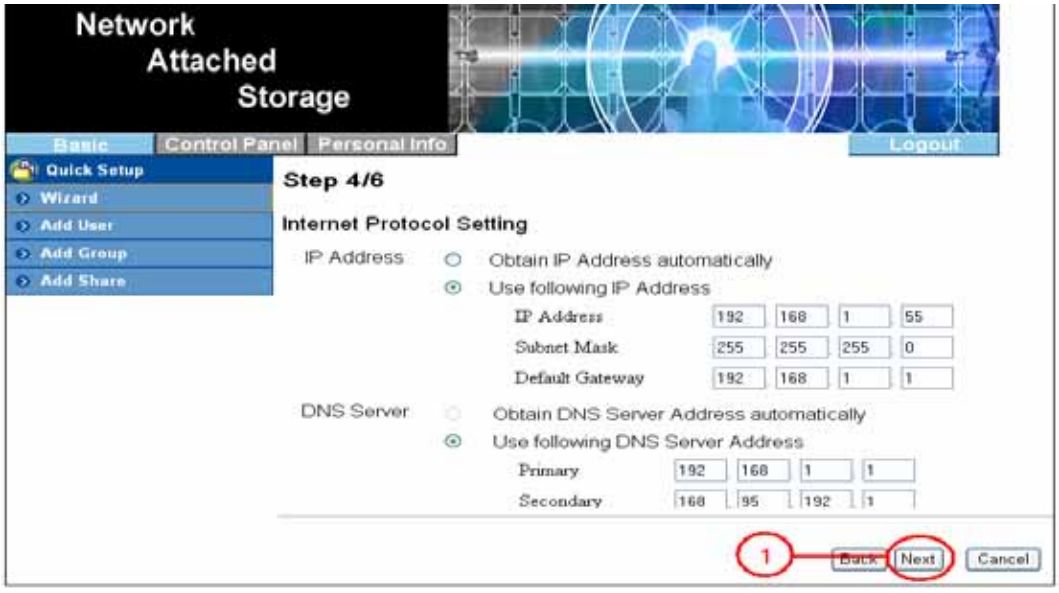
Step2. Click “Next” to continue.



Internet Protocol Setting

DUAL HDD NAS factory default gets an IP address through DHCP protocol.
If your network has DHCP server, DUAL HDD NAS will try to obtain an IP address form the network it connects to when it power on.

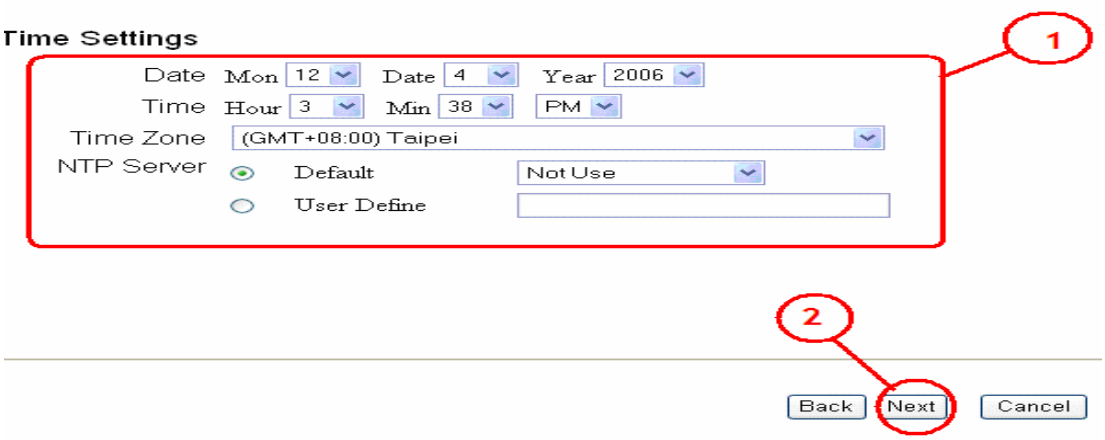
If there is no DHCP server in your network, after DUAL HDD NAS fail getting an IP address, the default IP address of 192.168.1.1 will be set, and DHCP server will start automatically.
Click “Next” to continue.



Time setting

Step1. Set time zone, current Date and Time form screen.

Step2. Click next to Continue.



Step3. Click Complete to finish Configuration.

Hostname	nas	nas555
IP Address	Use Following Address IP Address 192.168.1.55 Subnet Mask 255.255.255.0 Default Gateway 192.168.1.1	Use Following Address IP Address 192.168.1.55 Subnet Mask 255.255.255.0 Default Gateway 192.168.1.1
DNS Server	Use Following Address Primary 192.168.1.1 Secondary 168.95.192.1 Others 168.95.1.1	Use Following Address Primary 192.168.1.1 Secondary 168.95.192.1 Others 168.95.1.1
Date and Time	12/ 4/2006 3:38 PM	12/ 4/2006 3:38 PM
Time Zone	Taipei	Taipei
NTP Server	none	none

SAMBA Server setup page

SAMBA server allows user to share data or files through LAN envelopment. At first you need to create a new user/folder in to your network.

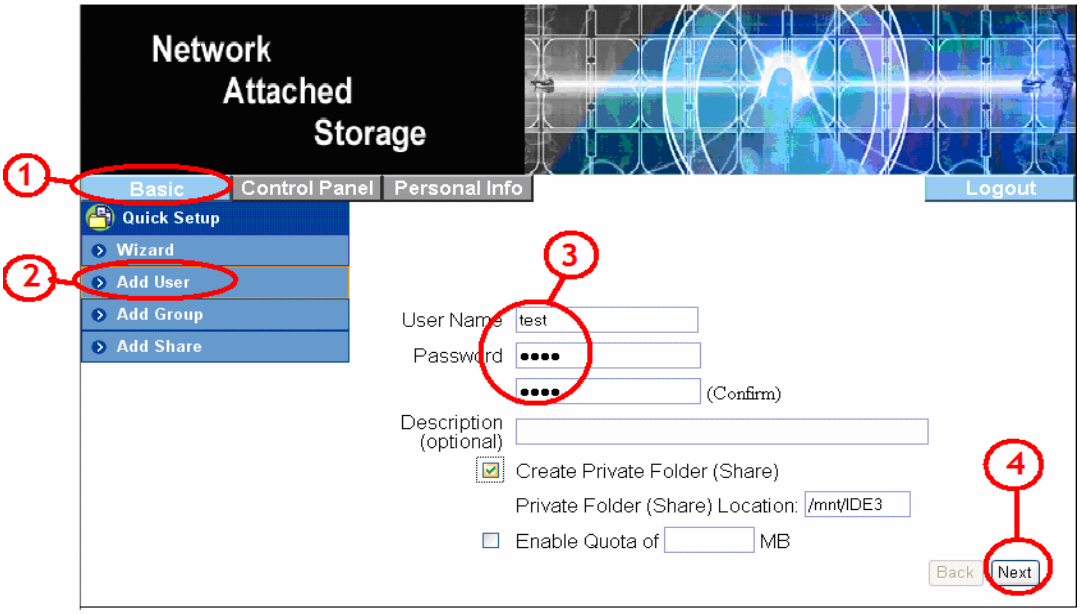
Create new user / folder

Step1. Click ”Basic”

Step2. Select “Quick setup” than “Add user”

Step3. Enter the user name you wish to add in to, (e.g. test) than enter password twice to reconfirm. User can create a private folder to share on SAMBA/ and FTP server.

Step4. Click “next” to continue.



- Recommended user to create a provide folder to share date form the network.
- Enable quota is to limit the HDD capacity for each user.

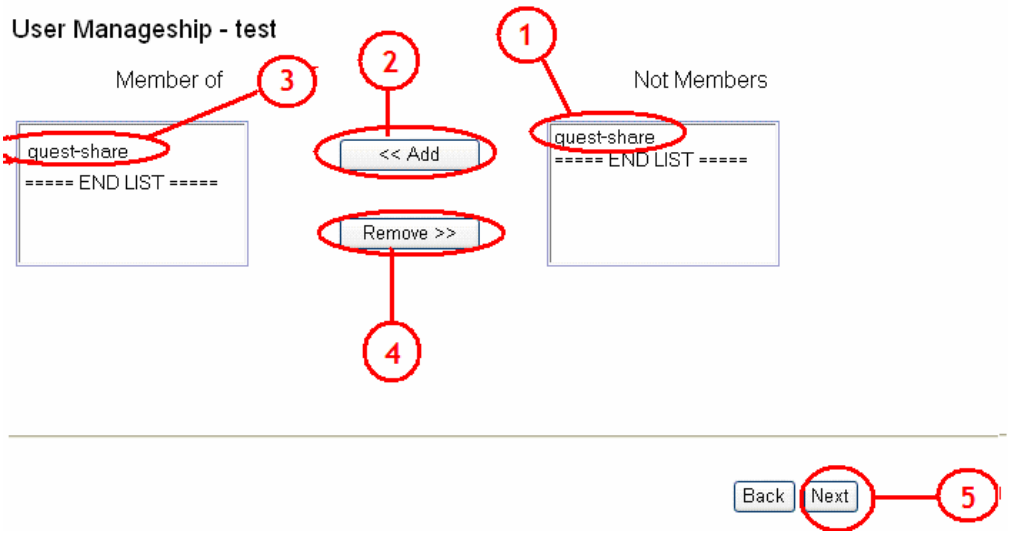
Add user in to Group member

Step1. Select Group you want to be add

Step2. Click “Add” to adding user to the group member.

Step3/4. Select Group name you wish to remove than click “Remove” to cancel the setting.

Step5. Click “next” to continue.

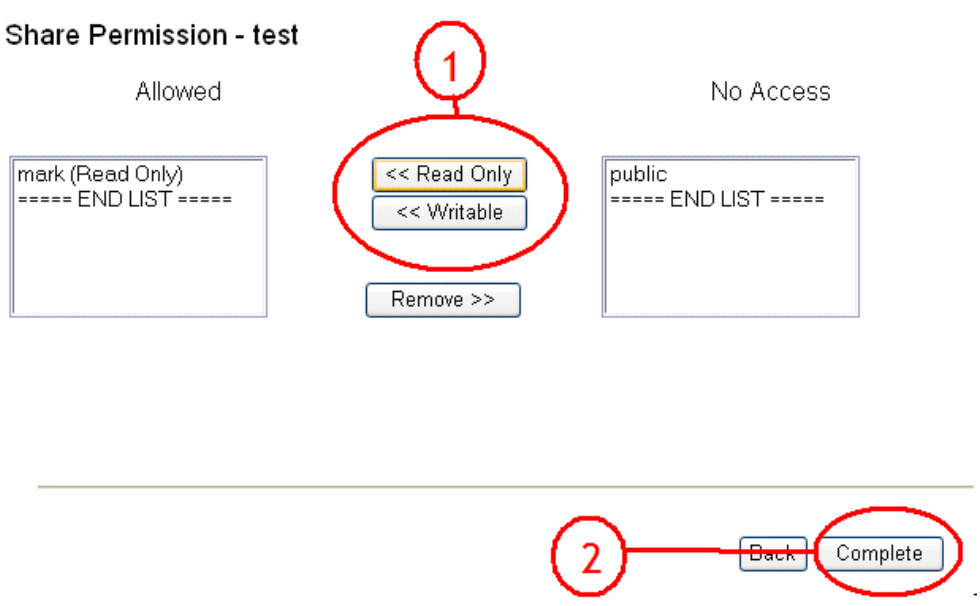


- Group name “Guest-share” is a factory default setting which can not be cancelled.

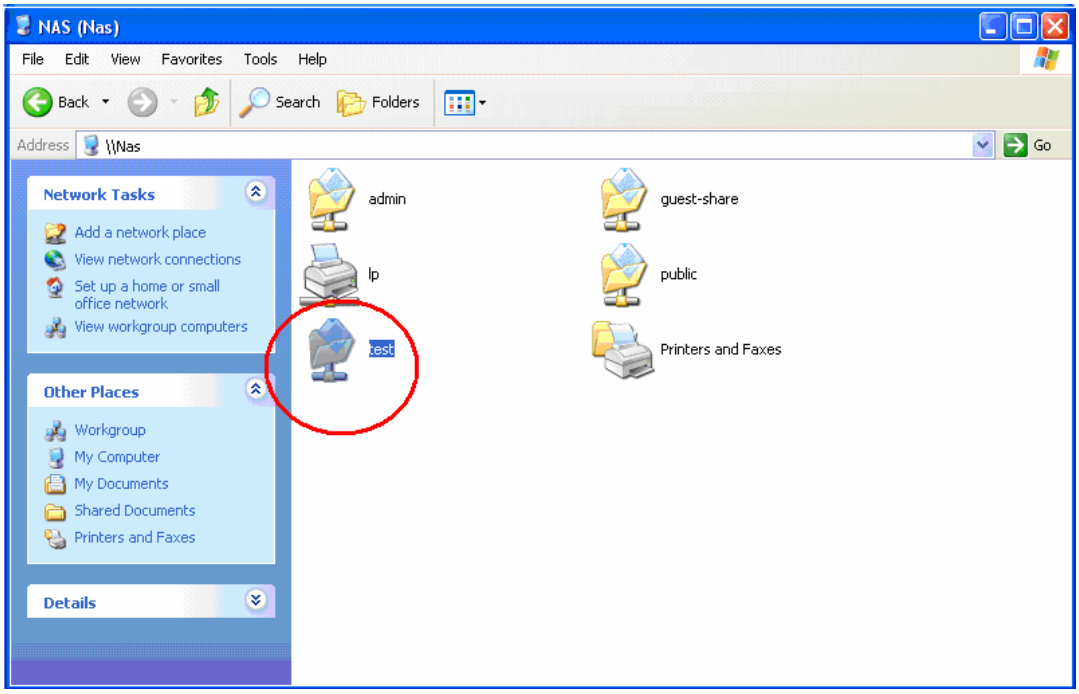
Share Permission for the user

Step1. Chose either “Read only” or “Writeable” for the user you selected.

Step2. Click “Complete” to quit user setup.



- After adding new user, browse the “My network place“; you should find a folder (e.g. test) appear in your network.



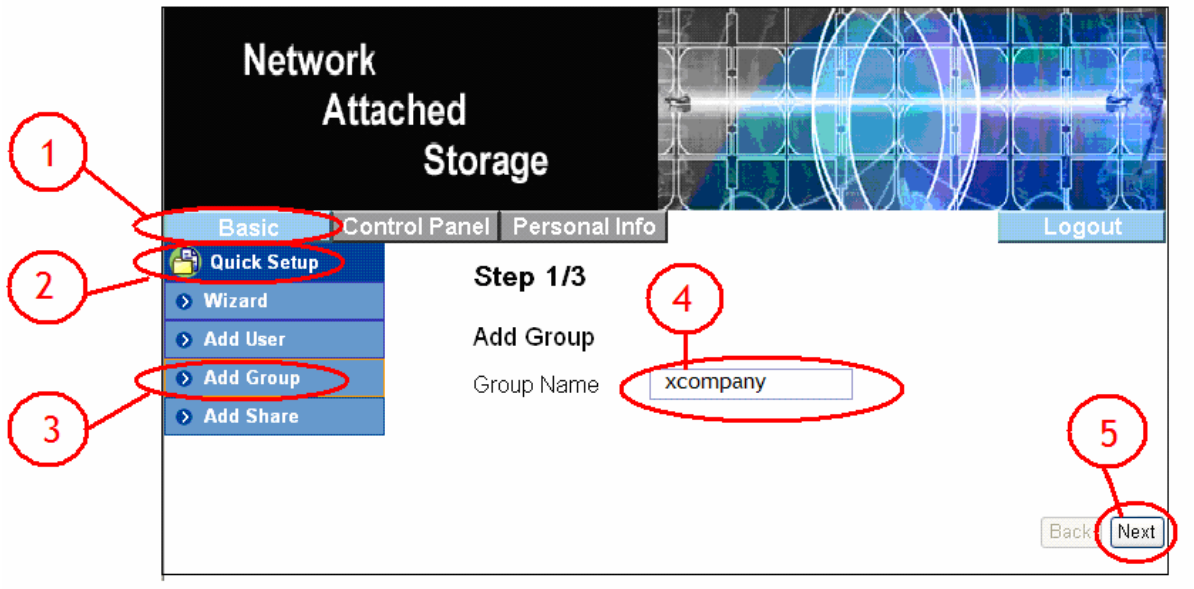
Adding new group

Step1. Click ”Basic”

Step2/3. Select “Quick setup”, then “Add Group”

Step4. Enter the Group name you wish to add in to, (e.g. Xcompany)

Step5. Click “next” to continue.



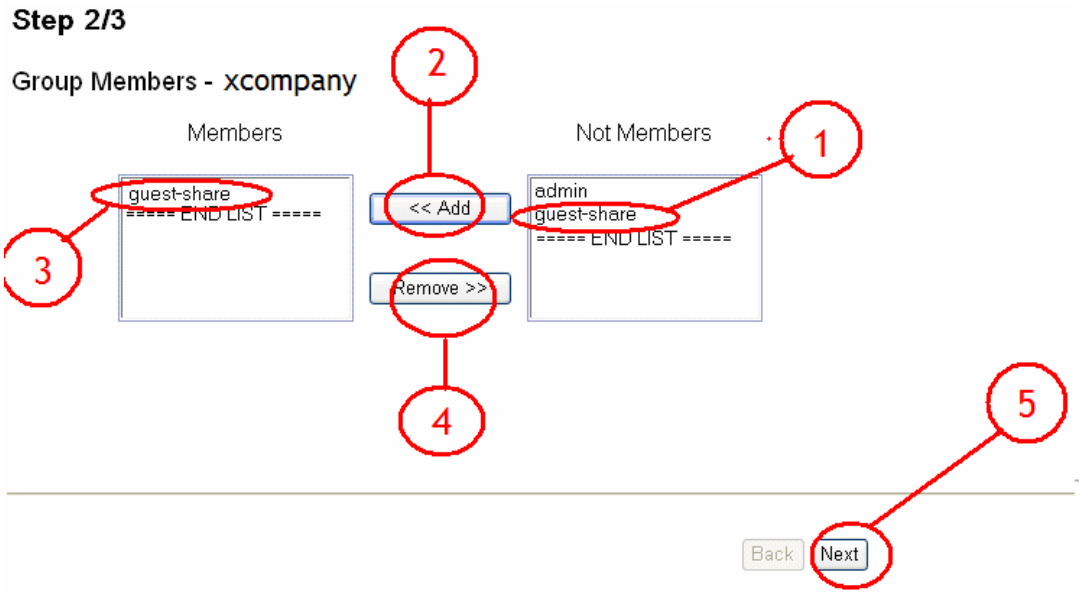
Add new Group in to Group member

Step1. Select group you want to be added.

Step2. Click “Add” to adding user to the group member.

Step3&4. Select Group name you wish to remove, then click “Remove” to cancel the setting.

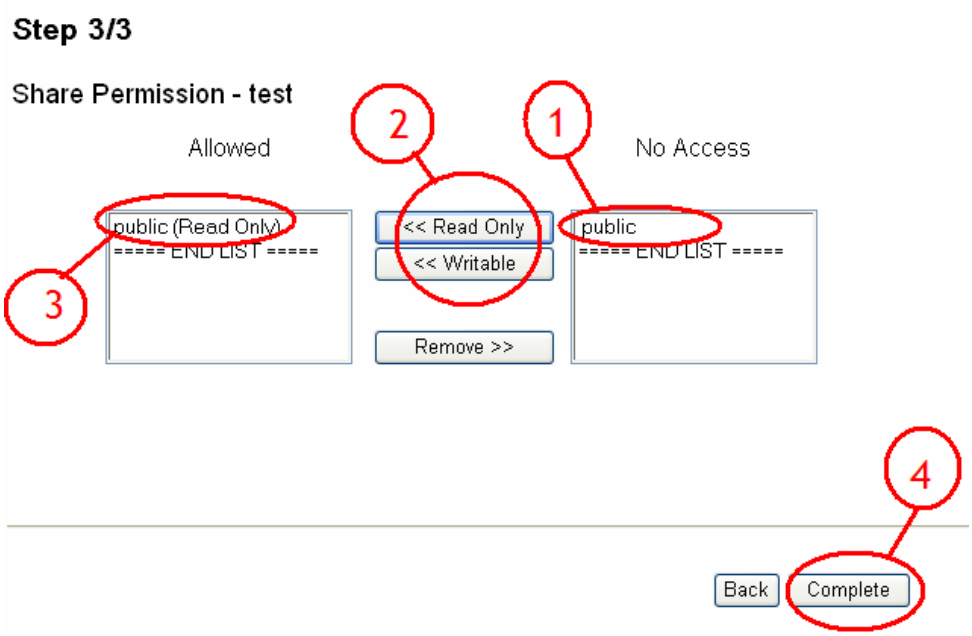
Step5. Click “next” to continue.



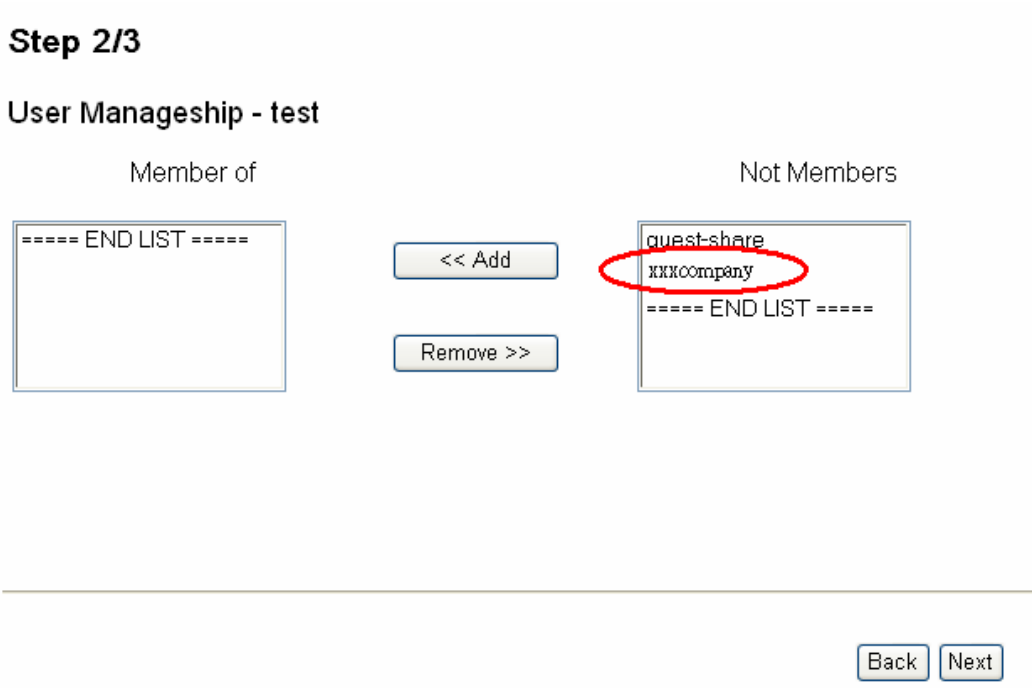
Share Permission for the Group

Step1. Chose either “Read only” or “Writeable” for the user you selected.

Step2. Click “Complete” to quit Group setup.



- After adding new group, a new group name will be shown form the list.



FTP Server setup page

User can share date form DUAL HDD NAS through internet by setting FTP share folder.

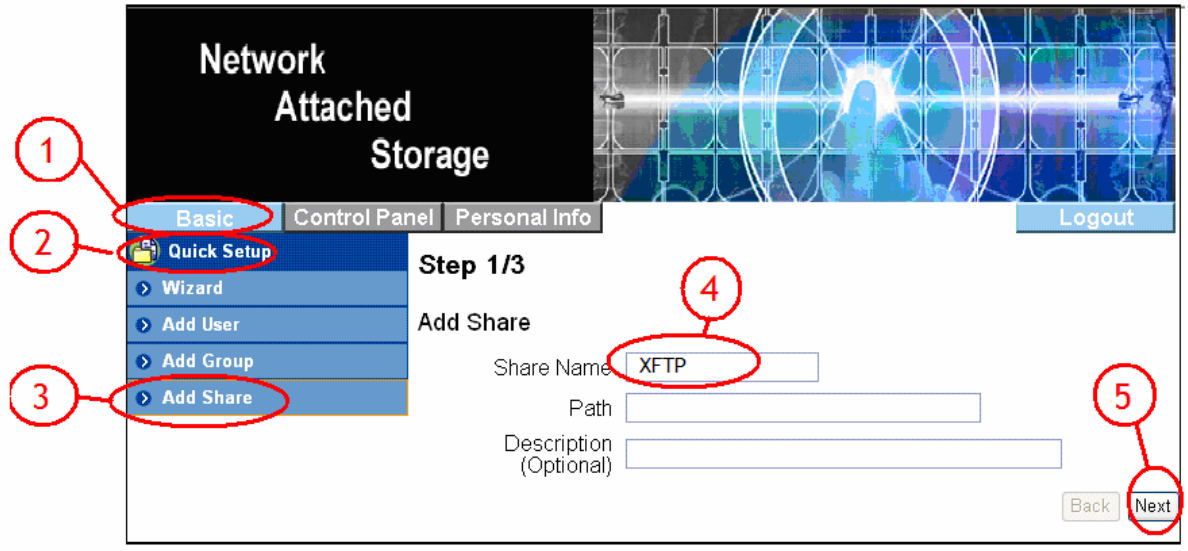
Step1. Click “Basic setting”

Step2. Click “Quick setup”

Step3. Click “Add Share”

Step4. Create a folder name you want to share. (e.g.XFTP)

Step5. Click “Next” to continue.

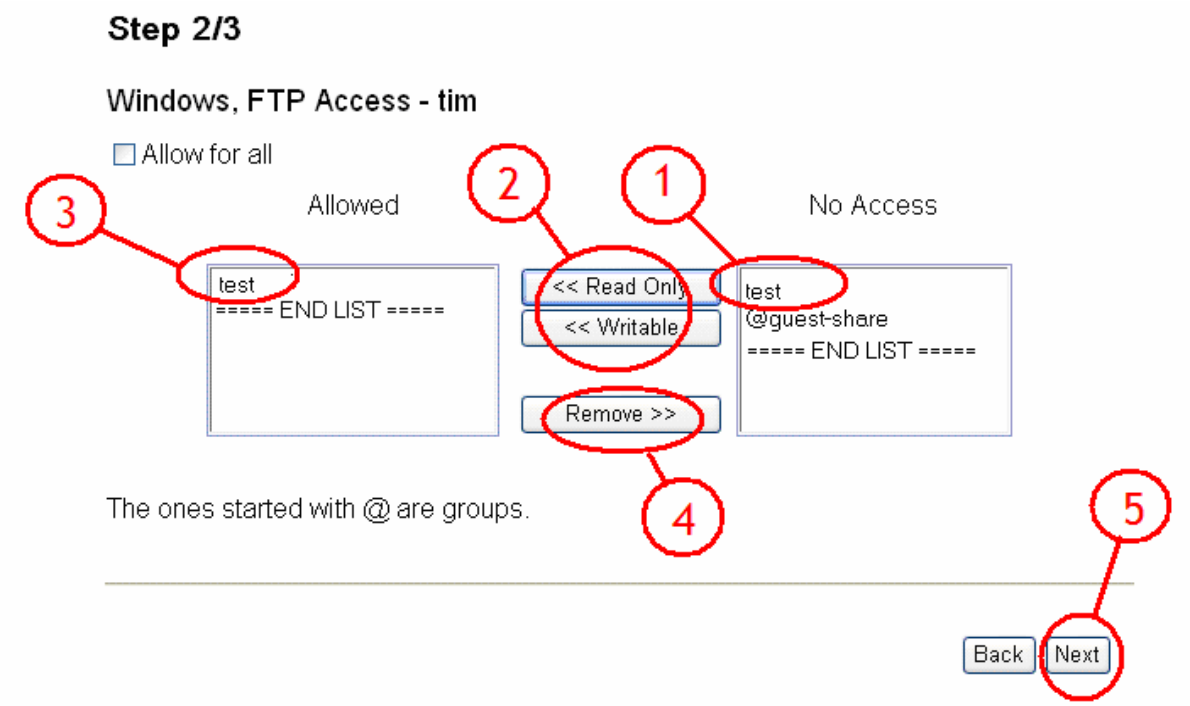


Step1. Select the user you wish to give permission to download the date form folder. (e.g.test)

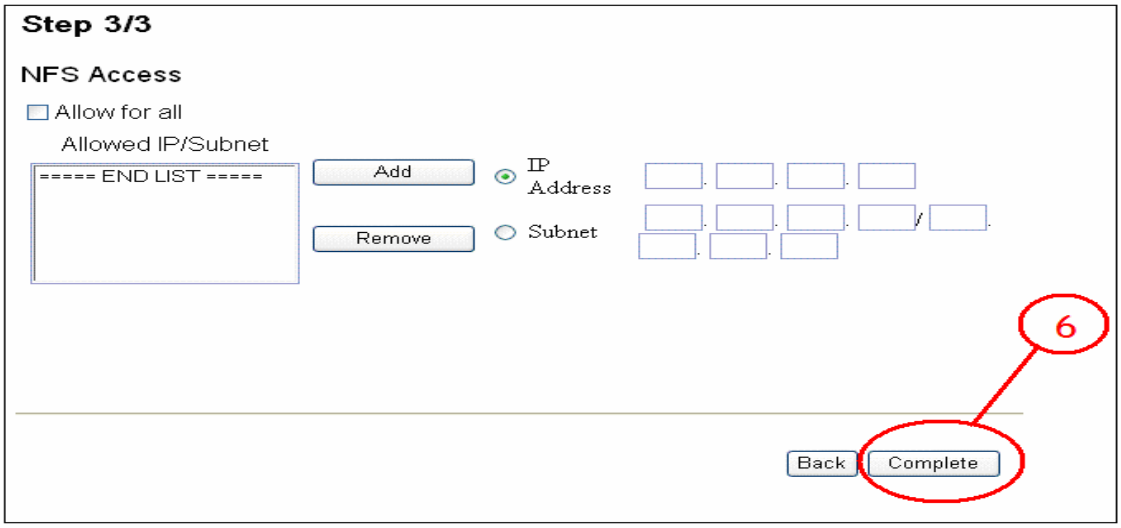
Step2. Chose either “Read only” or “Writeable” for the user you selected.

Step3/4. Showing how to remove the user.

Step5. Click “next” when finished.



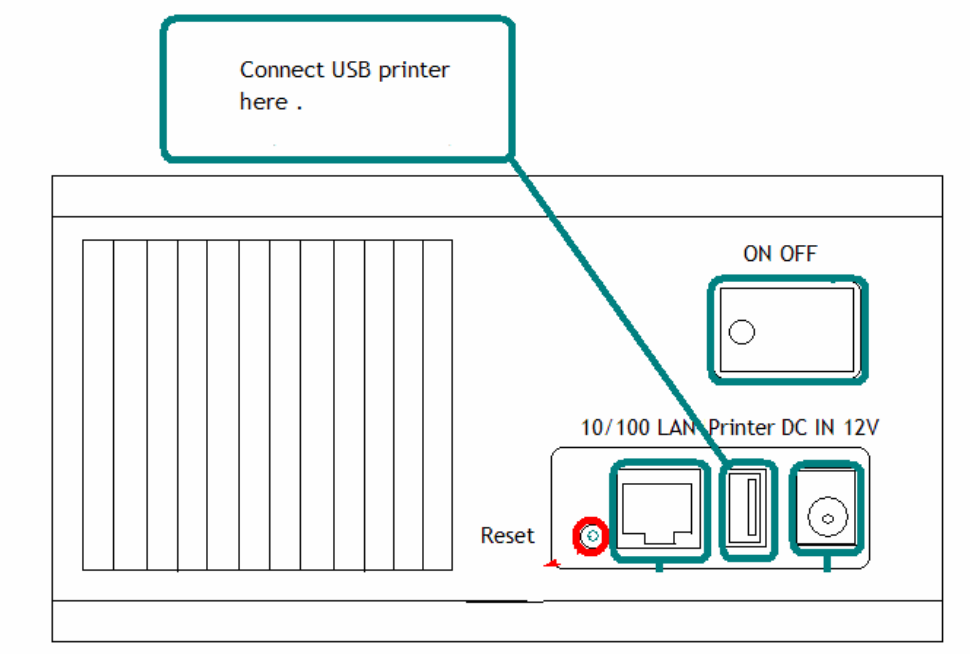
Step6. Click “Complete” to finish FTP setup



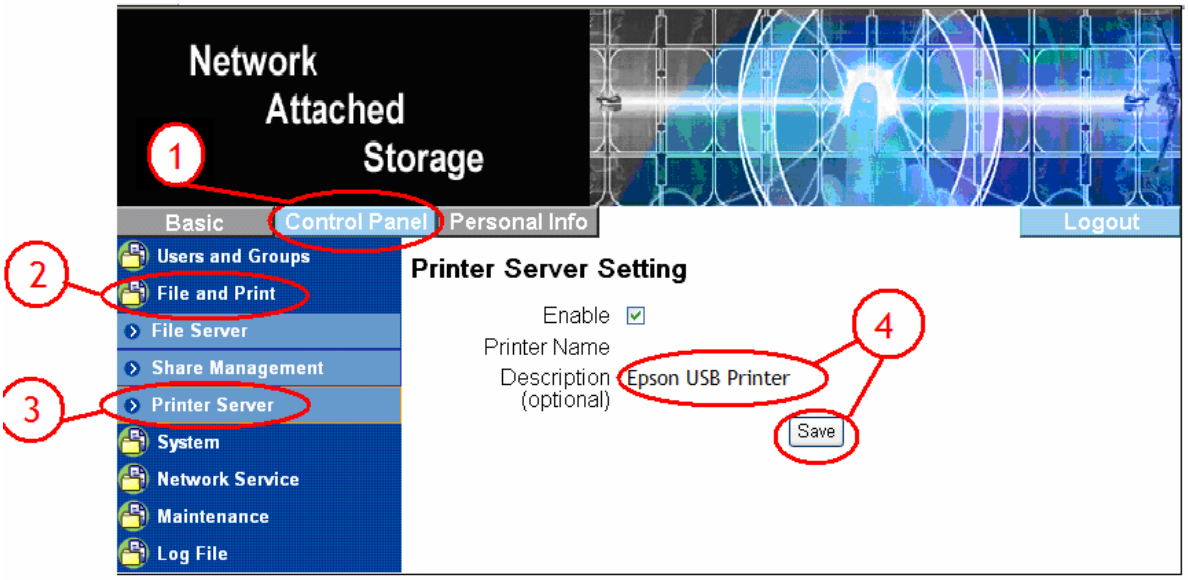
Printer Server setup page

Dual HDD NAS support most of major brand of printers, user can share printer resource form the network. Simply follow the steps below:

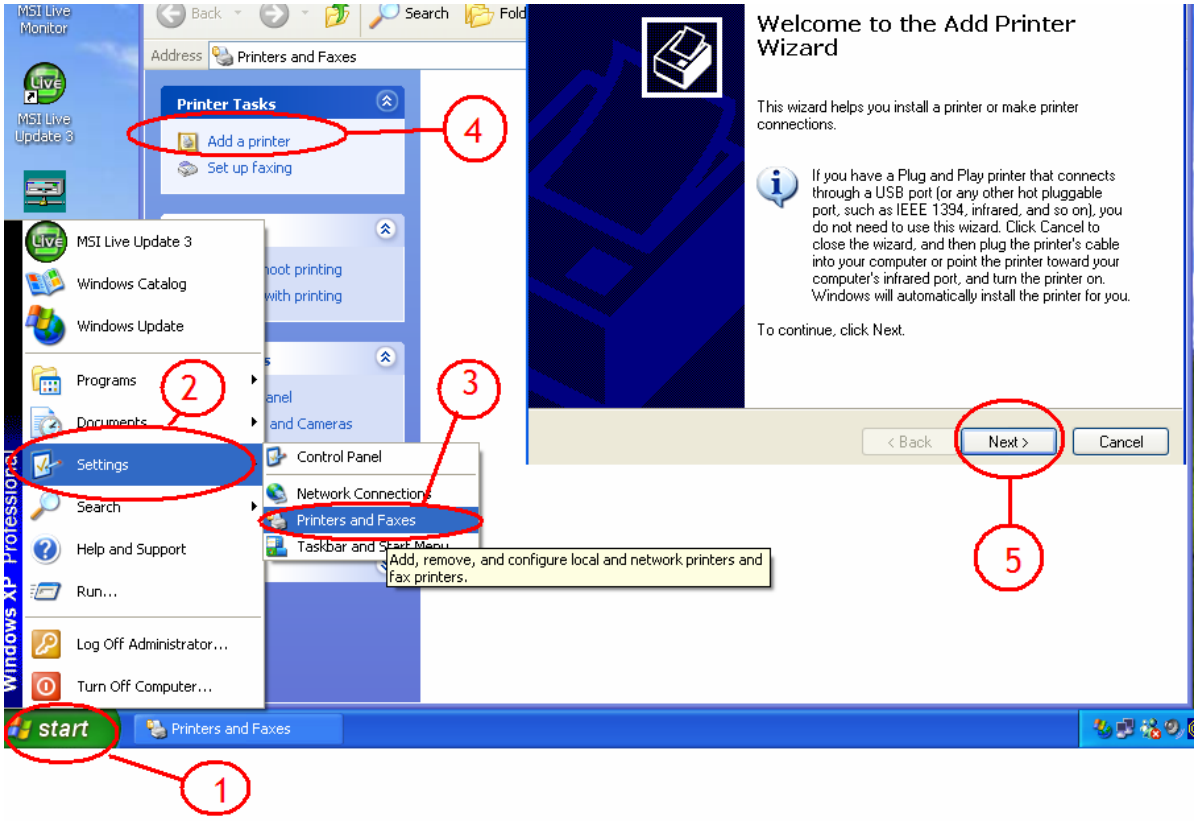
Step1. Power on and connect your USB printer in to your DUAL HDD NAS.



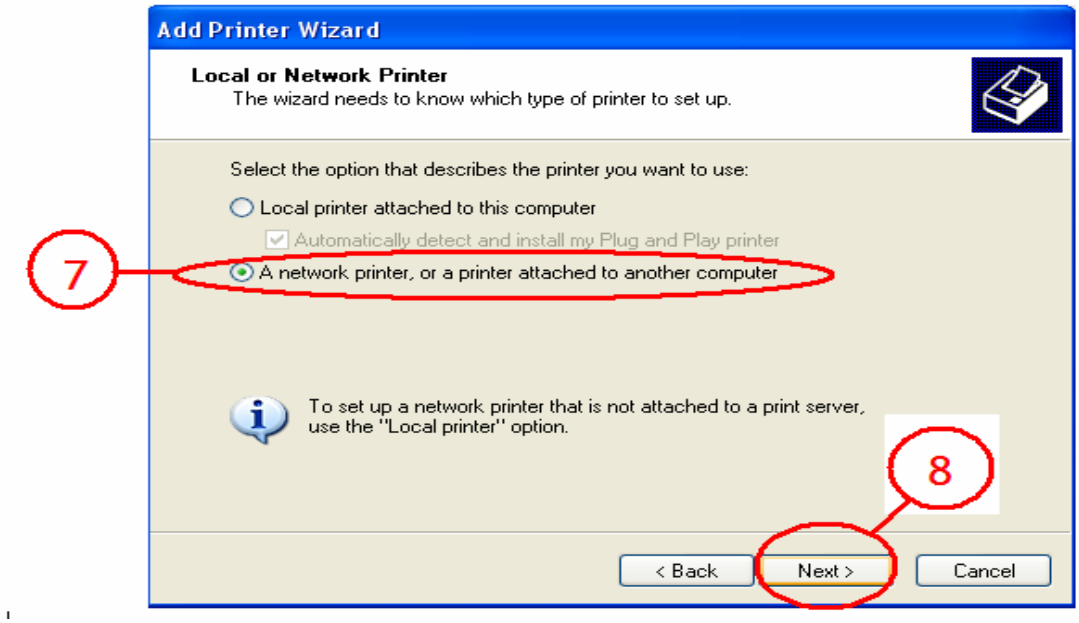
Step2. Browse the Web UI and see whether the printer has been detect the by DUAL HDD NAS. Please refer to photo below.



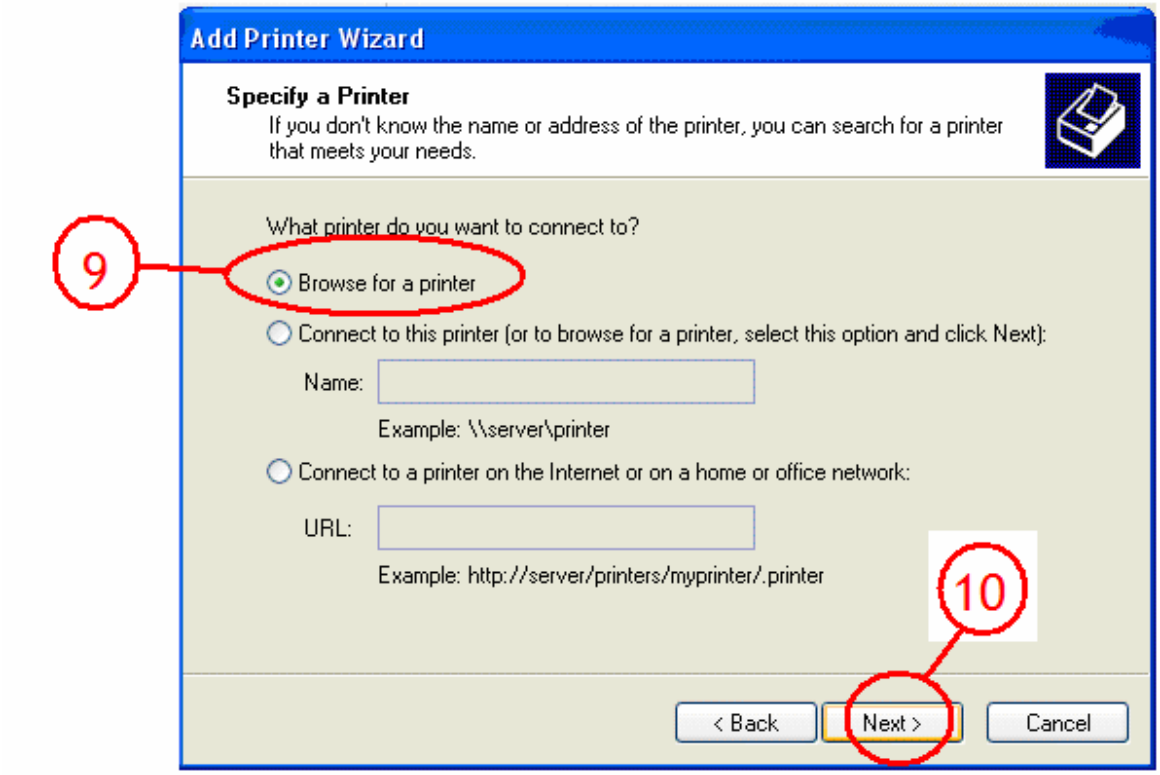
Step3. Install your Printer driver in to your computer first, (for example. if Epson PL-6200L Printer is connected to DUAL HDD NAS, you must install PL-6200L driver in to the computer which going to perform the print job. After driver installation please click “Start” → “Setting”→“ Printer and Faxes” → “Add a printer”→ “Next”.


Printer Tasks
Add a printer
Set up faxing
MSI Live Update 3
Windows Catalog
Windows Update
Programs
Documents
Settings
Search
Help and Support
Run...
Log Off Administrator...
Turn Off Computer...
Control Panel
Network Connections
Printers and Faxes
Add, remove, and configure local and network printers and fax printers.
start
Printers and Faxes
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel
1
2
3
4
5

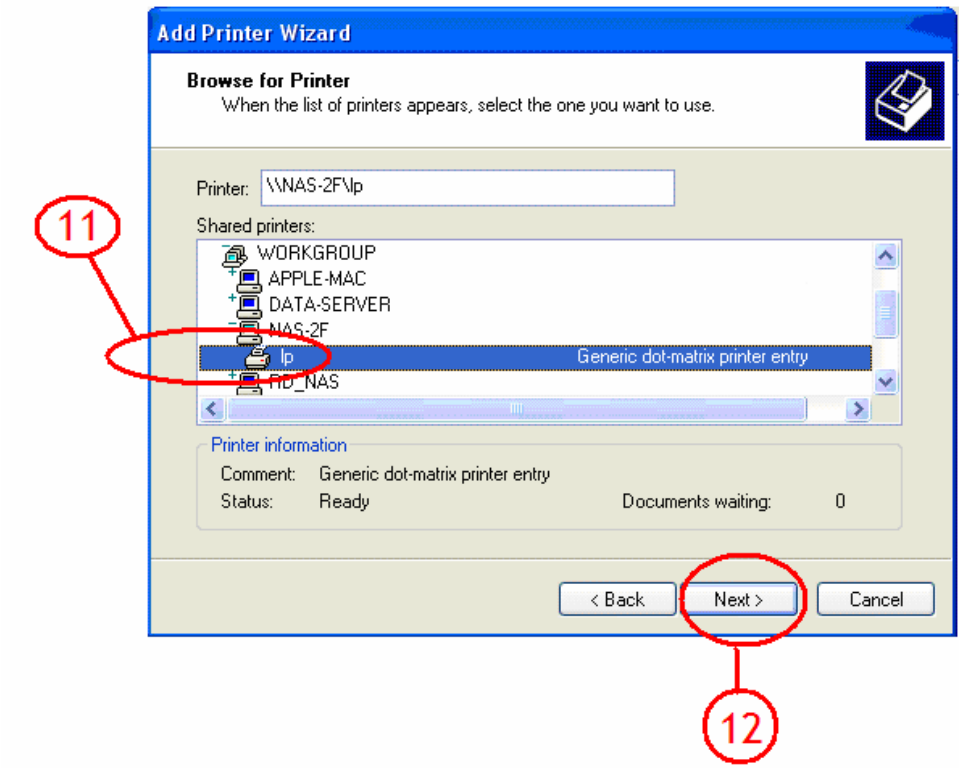
Step4. Select “A network printer or printer attached to another computer”, then Click “Next”.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel
7
8

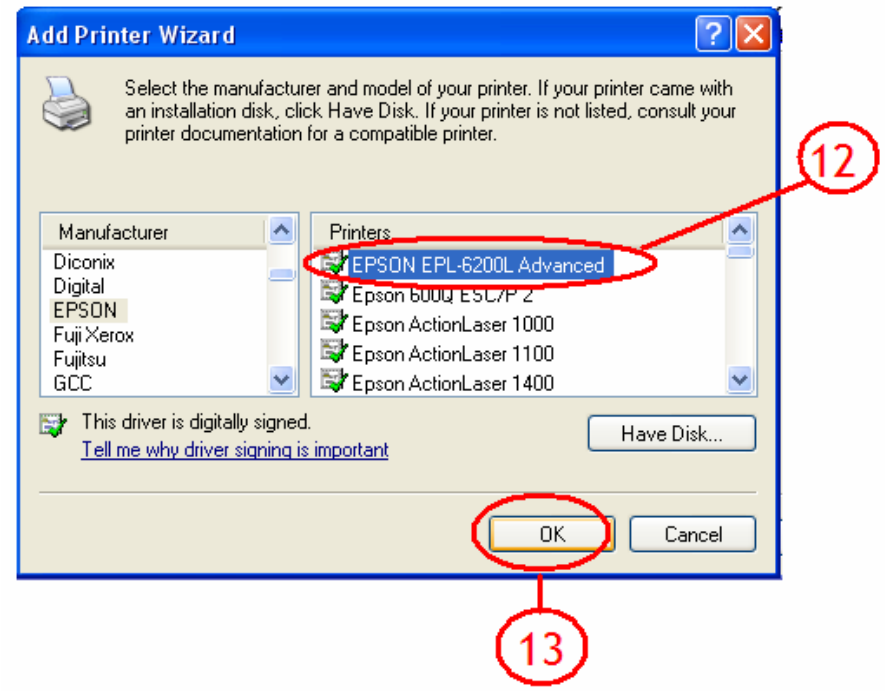
Step5. Select “Browse for a printer” than Click “Next”.


Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
9
Browse for a printer
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
Example: http://server/printers/myprinter/.printer
10
< Back
Next >
Cancel

Step6. Search the DUAL HDD NAS and USB Printer attached, then click “next” to browse the printer driver.



Step7. Go to Printer wizard and select the printer driver. Click “OK” to complete setup.



Notes: *DUAL HDD NAS Printer server does not support GDI/Host-based printers.*
For some Multi Function Printers (MFP); scanning functions might not be functional probably.
Please contact Printer Manufacture for detail Specifications.

Managing Group/ User/Folder

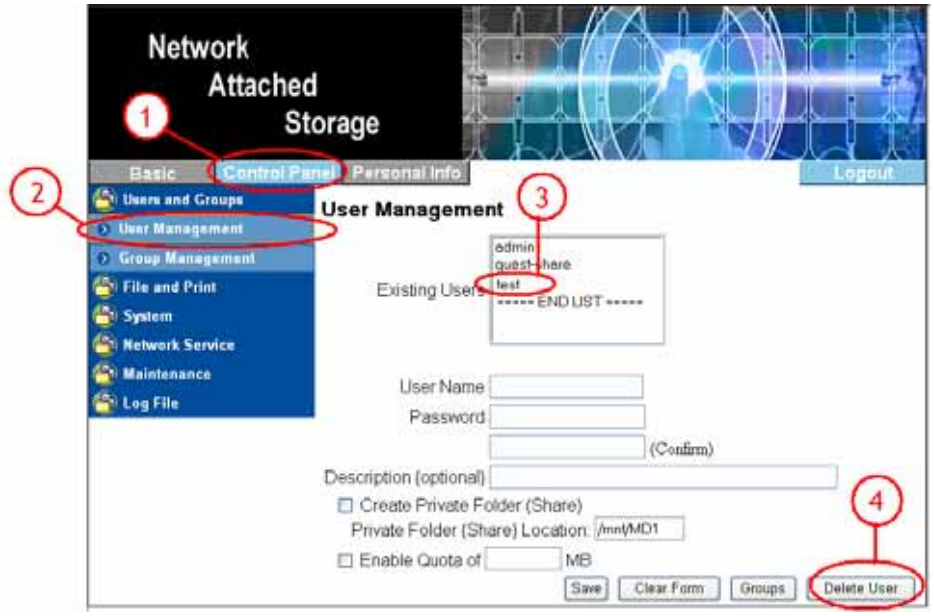
How to delete existing user/ folder?

Step1. Click “Control panel”

Step2. Click “User Management”

Step3. Select exiting user you want to delete. (e.g. test)

Step4. Click “Delete User”



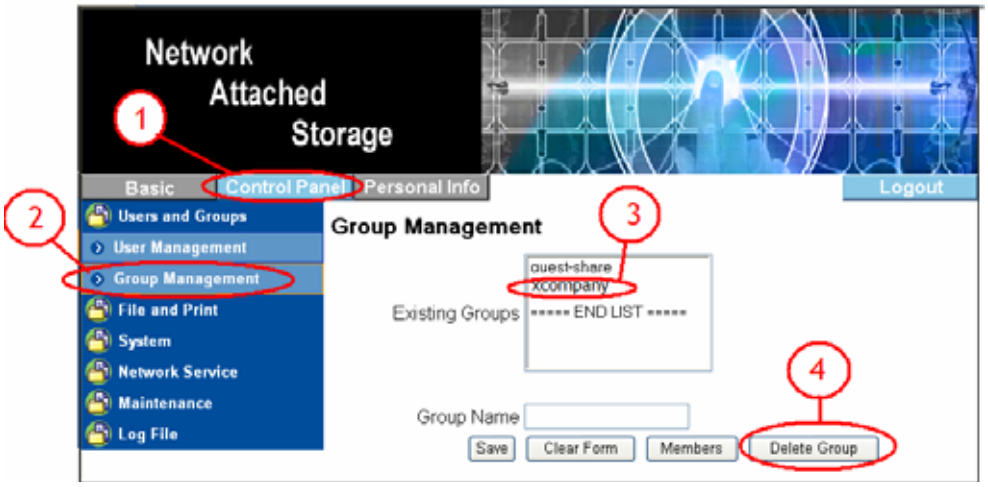
How to delete existing Group?

Step1. Click “Control panel”

Step2. Click “Group Management”

Step3. Select exiting Group you want to delete. (e.g. Xcompany)

Step4. Click “Delete Group”



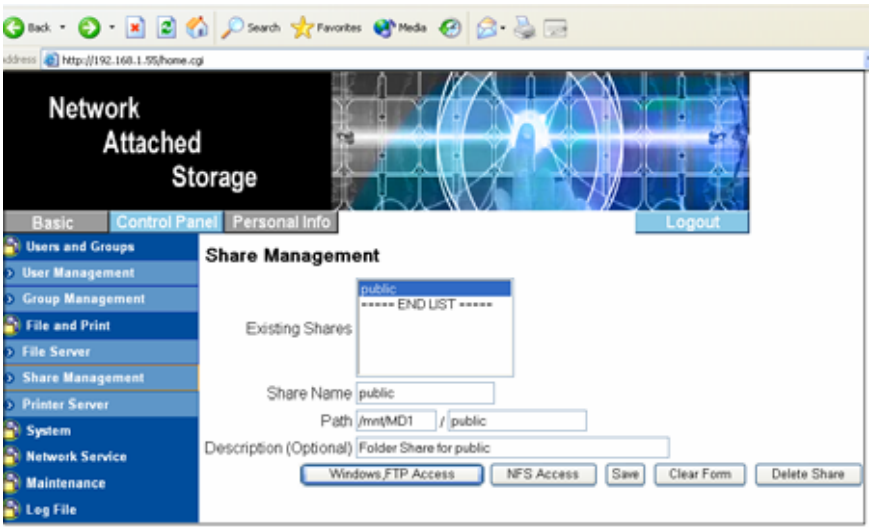
How to delete existing share?

Step1. Click “Control panel”

Step2. Click “Share management”

Step3. Select exiting Group you want to delete. (e.g. Xcompany)

Step4. Click “Delete share”



How to update Firmware?

User may down load the latest firmware form internet, please store in desktop of your computer. Than follow step below.

Step1. Click “Control panel”

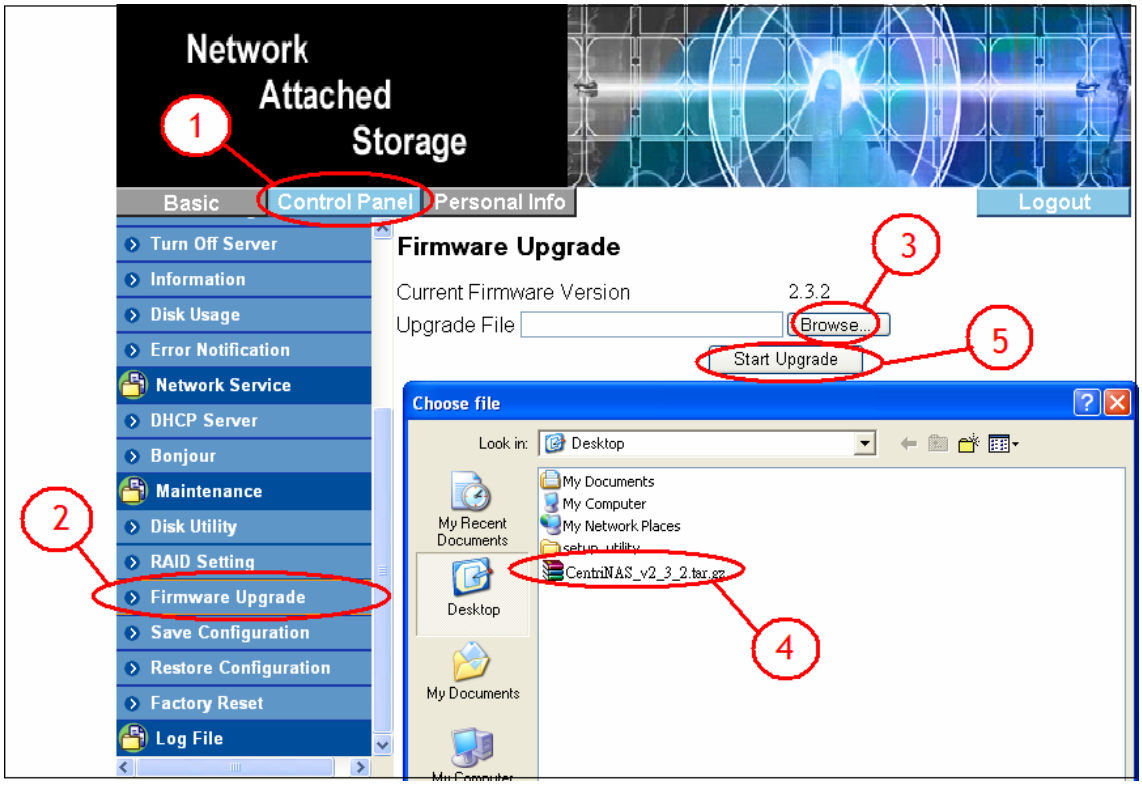
Step2. Click “Maintenance” than “Firmware upgrade”

Step3. Click “Browse” to search Firmware form desk top.

Step4. Double Click the firmware file.

Step5. Click “Start upgrade” to update firmware.

Note: *Firmware update require 15 to 20 min time, do not tune off power or shunt-down DUAL NAS while updating the Firmware. If failure occurs please contact your dealer for solutions.*



Save Configuration

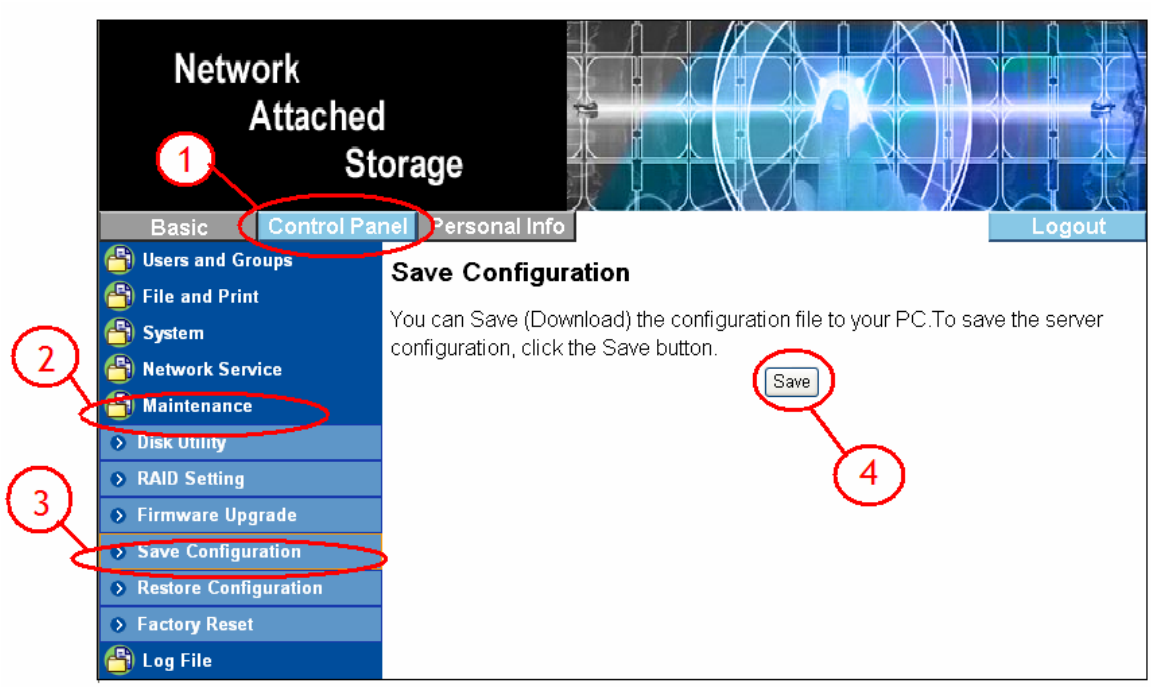
User can save (Download) the configuration file to your PC, to save the server configurations. Just follow steps below.

Step1. Click “Control panel”

Step2. Click “Maintenance”

Step3. Click “Save Configuration”

Step4. Click “Save” to save Configuration.



Restore Configuration

User may restore the configuration form computer just follow steps below.

Step1. Click “Control panel”

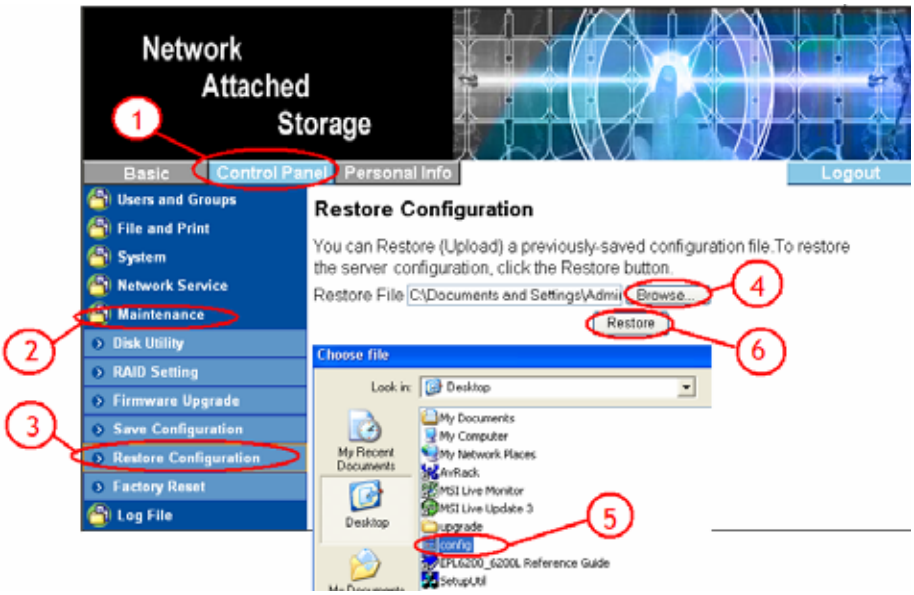
Step2. Click “Maintenance”

Step3. Click “restore Configuration”

Step4. Click “Browse” to search Configuration file form your computer.

Step5. Double Click the Firmware file.

Step6. Click “Restore” to start restore configuration.



How to operate Bonjour (iTunes) functions

User can share music through iTunes by active Bonjour function in DUAL HDD NAS.

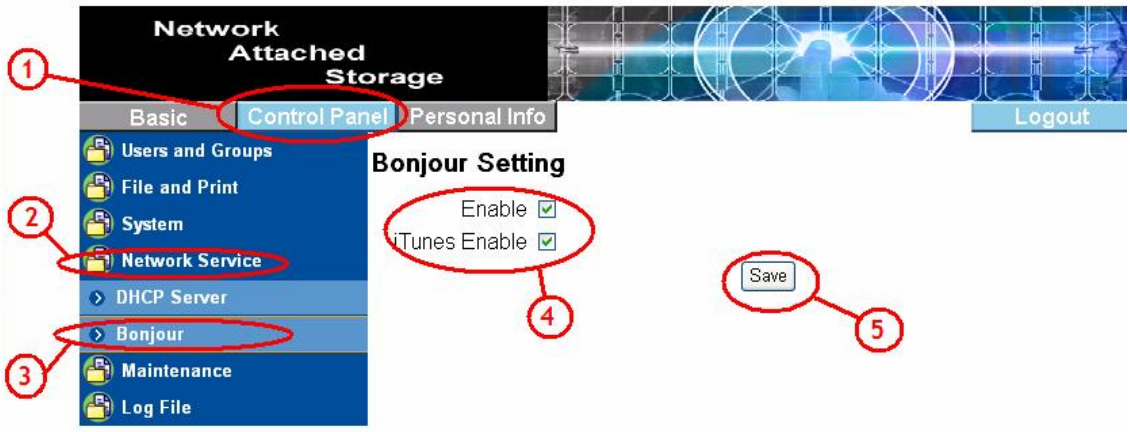
Step1. Click “Control panel”

Step2. Click “Network Service”

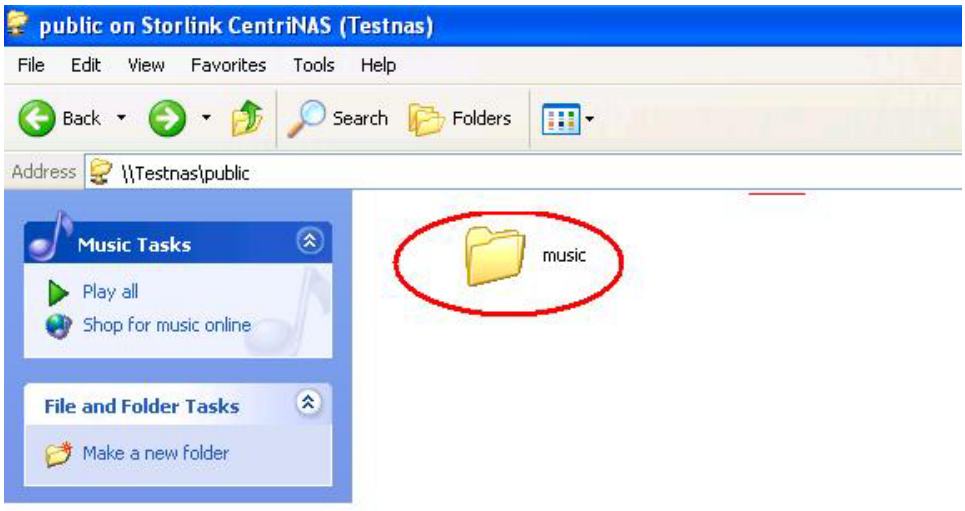
Step3. Click “Bonjour”

Step4. Tick “both “Enable” and “iTunes Enable”.

Step5. Click “Save” to Crate a “Music folder” in public folder.

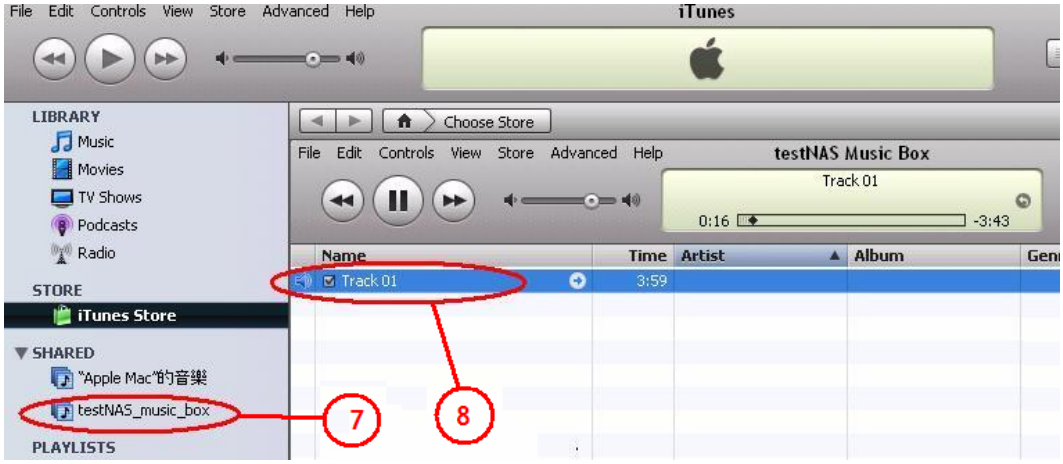


Step6. Go to Public folder and store your digital music format in to music folder.



Step7. Active iTunes and search for DUAL HDD NAS in Music Share.

Step8. All the music in Public Music folder will be listed in iTunes. Double click to start playing music.



Q&A:

Q: Why can't I access to the DUAL HDD NAS setup page?
A: Please connect the DUAL HDD NAS directly to your computer via RJ45 port. Open your web browser and key in the default IP address 192.168.1.1 Then type "*admin*" for both Account name and password to enter the DUAL HDD NAS setup page.

Q: Why Can't I perform RAID function under FAT32 format?
A: FAT32 format doesn't support RAID functions, to perform RAID functions please use EXT2 or EXT3 format.

Q: When install 2 HDD without performing RAID functions, and creating a Share-Folder using the Quick-Setup why its only possible to create Folder an the second Disk (/mnt/ide3/sharefolder) and not on the first Disk (/mnt/ide1/sharefolder)
A: DUAL HDD NAS GUI Software is design to managing RAID 1 or 0 functions, if user wants to use two speared HDD in the DUAL HDD NAS, share management will only recognize the first formatted disk.
eg: If user format Ide1 HDD first than managing priority goes to Ide1.
But still another HDD space can be recognize in the LAN development. User can browse it through "My neighborhood".

Q: Why can't I create/share folders in SMB or FTP server?
A: To avoid languages support issue, you are suggested to create/share folders with English characters only.

Q: Why can't I upload the files via LAN connection or got disconnected?
A1: Please make sure the networking is connected properly and you have the access right (read & write) for the folders.
A2: Please make sure you have enough bandwidth for uploading large files; a complicate network environment such as too many workgroups or too many layers of network can result in network disconnection.

Q: How to reset the DUAL HDD NAS?
A: Please press the reset button for 5 seconds and the DUAL HDD NAS will start to reset to factory default setting.

Q: How can I reduce the noise of the DUAL HDD NAS?

A: Make sure the hard drive/case/fan are properly screwed without interference and put on the foot stickers on case.

Q: Why WinXP can not enter SMB folder with password via DUAL HDD NAS?
A: Please update WinXP to SP2 or above. After update, please make sure if you have installed Norton Internet Security. If you do, please check with Norton service center.

Q: What is DUAL HDD NAS default login name and password?
A: Our DUAL HDD NAS default Login name: **admin**, default password: **admin**.

Q: How do I access DUAL HDD NAS via the Internet?
A: If your DUAL HDD NAS is using a public IP, please perform the following steps.
1. Enter the management web base of DUAL HDD NAS and go to the FTP Server page to enable FTP Status.
2. Create User account and limits of authority.
3. Open Microsoft Internet Explorer or other FTP software, and enter DUAL HDD NAS's IP address in the address field (ftp://DUAL HDD NAS IP).

Q: Why FTP can not link to DUAL HDD NAS or show link time out when using IE?
A: Due to IE FTP do not compatible with Router, suggest user to use FTP software to start with. If you would like to use IE FTP to link DUAL HDD NAS, please refer to following steps.
1. Please open port 21 and 20 on Router and link to DUAL HDD NAS.
2. Open IE > Tool > Internet Options
3. Don't tick "Enable folder view for FTP site" and click "OK"

Q: What is the limitation of user on DUAL HDD NAS FTP, Samba and account mode?
A: There are following limitations.
1. Maximum user number: FTP: 8 User, Samba: 8 User (total 24 sessions at the same time).
2. FTP Server: Maximum is able to create 32 user accounts, 8 user account connect at the same time, and maximum 16 folders shared by one account).
3. Samba Server: Share Level Access (maximum 16 folders shared by root).

Q: What can DHCP do as well with DHAL HDD NAS?
A: You can setup DUAL HDD NAS as a DHCP server when it is no any other DHCP Server exist in your LAN, otherwise, DUAL HDD NAS will automatically turn off its DHCP server function and become a DHCP client of existing DHCP Server. For example, if you have installed a router with built-in (activate) DHCP Server, DUAL HDD NAS will automatically setup itself as DHCP client.

Q: Does DHAL HDD NAS support Hard disk Power Management?
A: DHAL HDD NAS uses standby mode for power management (Sleep time), if there is no any activity ranging 5-60 min. You can go to web base > Disk Utility > Set Sleep Time function (0 to disable function, range 5-60 to enable function.

Q: What is the protocol of network file sharing system using by DUAL HDD NAS?
A: DUAL HDD NAS has the built-in Samba Server for file sharing, it is using SMB (Server Message Block) protocol to integrate TCP/IP, NETBUEI and IPX/SPX protocol. In other words, if the client PC that can support TCP/IP, NETBUEI or IPX/SPX, it will be compatible with DUAL HDD NAS. You can also use the built-in FTP Server for file sharing with Internet client.

Q: Why My USB Printer can not be detected by DUAL HDD NAS Printer server?
A: DUAL HDD NAS Printer server does not support GDI/Host-based printers.
For some Multi Function Printers (MFP); scanning functions might not be functional probably. Please contact Printer Manufacture for detail Specifications.